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ATTORNEY DOCKET NO. 14114.0353U2

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SEQUENCE LISTING

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 Kilpatrick, David R.
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<120> TYPING OF HUMAN NON-POLIO ENTEROVIRUSES

<130> 14114.0353U2

<140> 09/937,862

<141> 2001-09-28

<150> PCT/US00/07828

<151> 2000-03-24

<150> 60/127,464

<151> 1999-03-31

<160> 86

<170> FastSEQ for Windows Version 4.0

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<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence; Note =
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gcrtgcaatg ayttctcwtg

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<220>

<223> Description of Artificial Sequence; Note =
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<221> misc_feature

<222> (1)...(18)

<223> n = a, t, c or g

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ngcnccdgat tgntgsc

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<220>
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<221> misc_feature
<222> (1)...(20)
<223> n = a, t, c or g

<400> 3
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<210> 4
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<220>
<223> Description of Artificial Sequence; Note =
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<221> misc_feature
<222> (1)...(20)
<223> n = a, t, c or g

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<223> n = a, t, c or g

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<223> n = a, t, c or g

<400> 6
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<210> 7
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<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence; Note =
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<222> (1)...(18)
<223> n = a, t, c or g

<400> 7
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<223> n = a, t, c or g

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<210> 9
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<213> Artificial Sequence

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<223> Description of Artificial Sequence; Note =
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<221> misc_feature

<222> (1)...(20)

<223> n = a, t, c or g

<400> 9

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<210> 10

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<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence; Note =
synthetic construct

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<210> 11

<211> 20

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence; Note =
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<221> misc_feature

<222> (1)...(20)

<223> n = a, t, c or g

<400> 11

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<210> 12

<211> 19

<212> DNA

<213> Artificial Sequence

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0993860-092801

<223> Description of Artificial Sequence; Note =
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<222> (1)...(19)

<223> n = a, t, c or g

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<210> 13

<211> 20

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<223> Description of Artificial Sequence; Note =
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<221> misc_feature

<222> (1)...(20)

<223> n = a, t, c or g

<400> 13

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<210> 14

<211> 19

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence; Note =
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<221> misc_feature

<222> (1)...(19)

<223> n = a, t, c or g

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<210> 15

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence; Note =
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<221> misc_feature
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<223> n = a, t, c or g

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<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence; Note =
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<221> misc_feature
<222> (1)...(20)
<223> n = a, t, c or g

<400> 16
ggnacncayr tnathtggga

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<210> 17
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence; Note =
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<221> misc_feature
<222> (1)...(20)
<223> n = a, t, c or g

<400> 17
gcenrtttnt grtgnccraa

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<210> 18
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<212> DNA
<213> Artificial Sequence

<220>
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synthetic construct

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<221> misc_feature
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<223> n = a, t, c or g

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<210> 19
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<223> Description of Artificial Sequence; Note =
synthetic construct

<221> misc_feature
<222> (1)...(20)
<223> n = a, t, c or g

<400> 19
acngcngyng aracnggnca

20

<210> 20
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<221> misc_feature
<222> (1)...(19)
<223> n = a, t, c or g

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<210> 21
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<212> DNA
<213> Artificial Sequence

<220>
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<221> misc_feature
<222> (1)...(20)
<223> n = a, t, c or g

<400> 21
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<210> 22
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence; Note =
synthetic construct

<221> misc_feature
<222> (1)...(19)
<223> n = a, t, c or g

<400> 22
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19

<210> 23
<211> 888
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence; Note =
synthetic construct

<400> 23
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gtacaaaata caacacaatc aggacctact cattcaaaag aagttccagc attaacagca 120
gtggaaacag gtgctactag tcaagtagaa ccaggtgact tgattgaaac cagacatggt 180
ataaacatga gacaaagatc tgaagcatct atcgaatctt tctttggccg atccgcatgt 240
gttgcgatac ttggtttgtc aaacgccaaa ccaactgaca caaacaccaa acaattgttc 300
aaaacatgga gaatatcata tttagaaact caccaactca gaagaaaact tgagttcttt 360
acgtactcaa ggtttgattt ggaaatgacc atagtaatta cagagagggg tttcaatgca 420
gtcaatgtcc cattgcgcaa ttatgtgtac caaataatgt acgttcccc aggtgctcca 480
gaaccacaat catgggatga ttacacgtgg caatcttcta ccaacccatc aatattctac 540
accactggaa atgctcctcc cagagtgtca attccatttg ttggaatagg gtctgcatat 600
tcacactttt atgatggttt ctcacagatt cctcttgact caatcagtgc tggagcaagt 660
aataagtatg gttacacttc aatcaatgac tttggtaccc tggcaattag aatagtaaatt 720
gaatatgacc cagtgcaagt ggatgcaaag gcccgagtgt atattaaacc caaacatggt 780
cgcatgtggt gccccagacc accacgggcc atgccttaca agaatagcac agtggatttc 840
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<210> 24
<211> 882
<212> DNA
<213> Artificial Sequence

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<220>

<223> Description of Artificial Sequence; Note =
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tctccaactc	ataatacaac	ggcaggcaac	accaccgtta	gcgagcacag	catcggtacc	120
ggttcagtg	ctgcgttgca	agctgctgag	actggggcct	cgtctaacac	cacagatgag	180
agtatgatag	aaacacggtg	tgttgtcaat	aggaatggag	tgattgagac	tagcatcaac	240
catttcttct	cccagcgagg	gcttgtggga	gtgctgaaca	tacttgatgg	aggcacctca	300
aaaggctttg	aagtttgagg	tatagacatc	atgggctttg	ttcagcttcg	cagaaagcta	360
gagatgttca	cctacatgcg	gttcaacgct	gaattcacct	ttgtcgcgac	tttgagtgc	420
ggaacaactc	cccatataat	gttgcaatac	atgtatgtgc	cccctggagc	tcccaaacct	480
caggaaagag	attcattcca	atggcagact	gcaaccaacc	catccgtggt	tgcgaaaatg	540
agtgacctc	ctccgcaagt	ttcagtacct	ttcatgtctc	ctgctagcgc	ctaccagtgg	600
ttttatgatg	ggtacccaac	atttgatgat	agaccacaga	cctctaatac	tccttacgga	660
caatgcccc	ataacatggt	gggcacattc	gcggtgcgca	ttgttagcaa	gacgcctgcg	720
gagagagact	tgcgcgtccg	tgtttacatg	aaactgaagc	atgtgcgagc	atgggtaccg	780
cgaccataa	ggtcacagcc	ttacgtcttg	aagaactacc	ccaactatga	tggaacccaa	840
atcgtgcccc	gtgccaaga	tcgagaagac	ataaagaaca	ca		882

<210> 25

<211> 915

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence; Note =
synthetic construct

<400> 25

ggtgatgcaa	tcgctgatgc	tatacaaaac	acagttacat	ctactataca	gagagtcaca	60
accaacactg	ttgggcaaga	tgcaacagct	gctaacacag	caccagctc	tcatagtttg	120
aacactggcc	tagtccccgc	gcttcaagct	gctgagacag	gagcttcac	cacagccacg	180
gatgggaatt	tgattgagac	tagatgtgtt	gtaaactcca	atgggtacac	tgaaacccac	240
attgagcatt	tcttctctag	gtcagggctg	gtgggagtta	tgagggtaga	tgatacgggt	300
actagtggca	agggattctc	aaactgggac	attgacatca	tggcgtttgt	gcaactgcgc	360
cgtaaactcg	aggcatttac	atataatg	ttcgacgcag	agtttacctt	tgtcaccaat	420
ttggagaacg	ggctcacgaa	taatagtgtg	atacagtaca	tgatgtacc	acctggagcg	480
cctaaacccg	atgcccggga	atcattccag	tggaactctg	caaccaatcc	gtcagtcctt	540
caaaaaatgg	acagtccg	acctcaagtt	tcagtaccct	tcatgtcacc	agccagtgcc	600
tatcaatggt	tctatgacgg	ttaccccacc	tttgggcccc	actcggagac	atctaatacta	660
tcttacgggc	aatgtcccaa	taatatgctg	ggaacattct	cggccagggt	tgtagcaag	720
caaatcacca	atcagaaatt	ccagatccgt	atctatctac	ggctgaagag	ggtgagggcg	780
tggaatcccc	gacctttgag	atcgagccg	tacatttaca	gaaactacc	cacctatggt	840
actaccatcc	aatacctggc	caaagatagg	cgcaagatca	ctgaaactga	ttataatgct	900
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<210> 26
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 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence; Note =
 synthetic construct

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 agtggaccaa ttcagccagt gacagcggcc aacacctctc ccagttcaca tcggcttggt 120
 acggggcaag tgccagcttt gcaagcagca gaaacgggag ccacctcgaa tgcgaccgac 180
 gagagtttga ttgaaaccag gtgtgtggtc aacagacatg gagtcattga aactagcatt 240
 gaacacttct tttcacgctc aggcttgga ggaattttga taattgagga ctccgggtact 300
 tccacgaaag gctacgccac ttgggaaatc gatgttatgg gatttgtcca gctgaggcgt 360
 aaactagaga tgttcacata catgcgattt gatgcagagt tcacctttat cacagcagaa 420
 aggaatggca acaccagccc aatacccatc cagtacatgt atgtcccacc cggagcccca 480
 gtccctactg gtagggagac attccaatgg caaacagcga ccaatccatc cgtgatctca 540
 aagatgactg atccaccagc ccagggtgtc gtaccattta tgagcccagc cagtacttat 600
 caatggttct acgatggcta cccacgttc ggagaagttc cagtgactac gaacttgaac 660
 tatggacagt gcccaaacia caaaatgggc actttctgca tccgcatggt ctccaggtga 720
 tctacaggca aggacgtcac tgtgctgcat ttcattgaagt tgaagcatgt gcgcgcctgg 780
 gtgccaaggc ccatcaggag ccagccttac ttgttaaaga attatcccaa ctttgacaag 840
 tcaaataattg tagacgcac atcgaacagg acatatacca cact 885

<210> 27
 <211> 915
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence; Note =
 synthetic construct

<400> 27
 aatgacccca tttcaaatgc aatagaaaat gctgtgagca cactcgctga caccacgata 60
 tcacgtgtta cagcggccaa cactgctgct agtcccatt cccttggtac tggacgcgtg 120
 ccggcggtgc aggtgctgga gacaggggca agttccaacg ctacgatga gaacctgatt 180
 gaaactcgtt gtgtgatgaa tagaaatgga gttaacgaag caagtgtaga acacttctac 240
 tcccgctgag ggctagtagg agttgtggag gtgaaagact caggcactag tcaggacggg 300
 tacacggtgt ggcccataga tgtgatgggc tttgtgcaac agcggcgcaa gttagagcta 360
 tctacttaca tgcgctttga cgtgaattt acctttgtgt ccaatctcaa tgacagcaca 420
 acaccgggca tgcatttgca gtacatgtac gtgcgcggcg gtgcgcccac accagacggt 480
 aggaagtcac atcaatggca aacagccacc aacccttcaa tattcgcaaa gttgagtgc 540
 ccaccgcccc aagtgtctgt cccattcatg tcaccggcgt cagcctacca gtggttctac 600
 gatggttacc ccacgtttgg cgaacacaag caagctacta atttacaata cggtcagtgc 660
 cctaacaaca tgatggggca ttttgctatt cggacagtta gtgaatccac caccgggaaa 720
 aatgtccatg tccgggtgta catgagaatt aagcacgtaa gagcatgggt gccagacct 780
 ttcagatccc aagcttacat ggtcaaaaac taccgacat acagccaaac aatatccaat 840
 actgcagccg atcgtgcgag cataaccact acggactatg aggggtggcg accagcaaac 900
 ccgcagagaa ctttt 915

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<220>
<223> Description of Artificial Sequence; Note =
synthetic construct

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agctcaatcg	acaccaaacc	tggtgctaac	actcaagcta	gccaacatcg	tataggcttg		120
ggggaggttc	ccgctcttca	agctgctgag	acaggatcgt	cttcgctcgt	ttcggacaag		180
aacatgatag	aaacaaggtg	tgctgtaaacc	aaacacagca	cagaggaaaac	cagcattaca		240
aacttctact	ccagggcggg	cctagtgggg	gttgtgaaca	tgccagtaca	aggaaccagc		300
aacacaaagg	gtttcgcaaa	gtggggggata	gatataatgg	gctttgtgca	gatgaggcgc		360
aaacttgagc	tcatgacata	catgagattc	tccgccgagt	ttacgttcgt	accagcact		420
cctggggggag	agactactaa	ccttatactg	caatacatgt	atgcacctcc	cggagctccg		480
ctgccaacca	ggcgggattc	atacgaatgg	caaacatcca	ctaaccctcc	tattatcagc		540
aagatggcgg	acccaccgcg	tcaggatatcg	gttccattcc	tttctcctgc	atcagcatat		600
cagtggttct	atgatggcta	ccccacattt	gggaaacacc	caatagatca	ggacttccaa		660
tatggcatgt	gccccaaaca	catgatgggc	acattctgtg	tgcgcatgat	cgggtgggggc		720
aaaccgaccc	aatcagttac	catacgtata	tacatgagat	taaagcatat	ccgtgcatgg		780
gtgccccggc	cactgaggag	tcagaattac	actatgagga	attacccgaa	ctacaacggg		840
qqcgcataaa	aatgtacatc	aaaaagcaga	gctaccataa	caacctta			888

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<220>
<223> Description of Artificial Sequence; Note =
        synthetic construct
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gggggatgtcc	cagctctcca	agctgcagag	actggcgcta	cttccaatgc	ctcagacgag		180
aacatgattg	agacacgatg	tgtgttaaat	cgcaatgggg	ttgtggaaac	tagtttggac		240
catttctttt	caagagcagg	cettgtggga	gtgatcaatg	tgcaagatgg	cggcactcag		300
aagggttttg	aagtgtggga	catagatgtc	atggggtttg	ttcaactcag	gaggaagttg		360
gagatgttca	cgtacatgag	gttcaacgcc	gagttcacat	tcgtatccac	actcgcggat		420
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caggagagag	attcgtttca	gtggcaaaact	gcaaccaacc	catcagttatt	ttgcaaaatg		540
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ttctacgatg	ggtacccaac	attcgatgat	cgaccggcca	cctcaaacca	cccgtagcgt		660
cagtgcccca	ataacatgat	gggcacattc	gcagtgcggt	ttgtcagcaa	gaccccagcc		720
acacggggatc	tgcgtgtcag	agtgtacatg	cgctgaaac	acgtgcgcgc	atgggtaccg		780
agacctatcc	gatctcaacc	ctatattttg	aaaaactacc	caaattatga	tggcacaaag		840
ataacgtcga	catctaagga	taggcaaaagc	atcaaaacaa	ca			882

<210> 30
 <211> 894
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence; Note =
 synthetic construct

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 actagtgggtc aagatgtcaa cacagcgccc ggtaccgctc ctagctctca caggttggag 120
 actggtcgtg ttccccccct acaagcagca gaaactggag ccactttctaa cgctacagat 180
 gagaacatga tagaaacgcg gtgtgtcatg aacagaaatg gagtggttga ggcgactata 240
 agtcatttct tctcacgctc aggtttggtg ggtggttgca atctaactga cggaggcacc 300
 gatacaacgg gatatgcagt gtgggacatt gacatcatgg gttttgtgca actgcggcgg 360
 aaatgtgaga tgttcacata catgagattc aacgctgagt tcacattcgt cactacaaca 420
 gaaaatggcg aggcaaggcc atttatgtta cagtatatgt atgtacctcc aggtgccctt 480
 aagccaacgg gtagagatgc ttttcagtgg caaacagcga caaatccatc cgttttcgtt 540
 aagctcacag atccacctgc tcaggtatca gtcccttca tgtcacctgc tagtgcttac 600
 caatggttct atgacgggta tccaacattt ggacaacacc cggaaacatc taatacaaca 660
 tatggacagt gccctaacaa catgatgggg acctttgctg tgagagtagt gagtagagt 720
 gctagccagc tcaaactaca gacacgagt tatatgaagc ttaagcatgt gagagcatgg 780
 atccctaggc caataagatc ccagccttac ctctaaaga attttccaaa ttatgatagt 840
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 <211> 912
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence; Note =
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 aagccagtgg acaactctgt acaaaacacc caacaaagt ctcagtgca tagccaggag 120
 gtgccagcat tgaccgcagt ggagacagg ggcacaagt atgtggttcc atctgacct 180
 attcagacta gacacgtatt gaatgttaaa tccaggtctg aatccaccat cgagtcattt 240
 tttgcaagag ctgcatgtgt aaccattatg caggtggaca atttcaacgc aacctctgtg 300
 gaagacaaaa gaaagtgtgt tgctaaatgg gcaatcacct acactgatac cgtccagctg 360
 agacggaaat tagagttttt cacttattct agatttgact tagagatgac ttttgtgcta 420
 actgagagat actactccca aagctcagg catgctagat ctccaggtgta ccaaattatg 480
 tatgttccac caggggcacc cagcctagt gcatgggacg actacacatg gcaaaccatc 540
 tccaacccat ccattttctt taccaccggc aatgcaccac cgcgcatttc aattccattt 600
 gttggaatcg ccaatgcata ctacacttt tatgatggct ttagtagagt acctttggag 660
 ggagaaacaa cagacacagg agacgcttac tacgggctca cttcaataaa cgattttggt 720
 aacttgcag tcagggtagt taatgactac aaccagcca gggaggagac aaggattaga 780
 gtatacatga agcccaaaca tgtgagagtc tgggtccccg gacctccaag agcggtaagc 840
 tacagaggac ctggagtcga ctcctatca acatcagtaa cacctttatc caaacatgac 900
 ctacgacat ac 912

<210> 32
 <211> 888
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence; Note =
 synthetic construct

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 actaccaga cacaccagac agcagctgac actagagtta gtacacacag gttaggcacg 120
 ggggagggtgc cacctttaca agcagcagag acagggtgcca cctccaacgc aaccgacgag 180
 aacatgattg aaacacgctg tgtcgtaaac aggcacgggg tgagcgagac cagcgtggaa 240
 tacttcttct ctcgctctgg tttggcagga atagtcacg tggaggatgc aactgccact 300
 aataaggggtt atgccacatg ggagattgat gtcattgggg tgcgcgaact gcgtcgcaag 360
 ctggagatct tcacatacat gcgcttcgat gcagagttca cttttgtggc aacagaacgc 420
 aatgggagca ccagcccggg catgatgcag tacatgttcg tgccccctgg cgccccctgtt 480
 ccaacaggga gagatacctt ccaatggcaa tctgtacta acccttcagt gctagtataa 540
 atgacggatc caccggccca agttgccatc ccctttatgt ctccagctag tgcataccaa 600
 tggttctatg atggatatcc tacctttgga gaaagaccag ttacaaccaa catgaattat 660
 ggacagtgtc ccaacaacaa aatgggaact tttgtatac gcactgtctc cgggtgaagcg 720
 tcagggaaaa acatcactat acgtattttt atgagggtga agcatgtaag agcgtgggtg 780
 cctcgcccaa ttagaagcca gctatatctg cttaaaaatt accccaactt tgataacact 840
 aagatcctca acgcctcca caacagagct tctatcacat caaacaca 888

<210> 33
 <211> 927
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence; Note =
 synthetic construct

<400> 33
 gggttggaag atctaataca acaagttgag tctaacgcat tacaattgtc ccagccaaca 60
 agaccggcac tcccaccagc cgagcagagt gtccccaaca ctaaccaaac aactccagaa 120
 cactccaagg aagtcaccagc gttaacggca gttgaaactg gcgccacgaa tcctctagag 180
 cctggcgaca cagttcagac tagacatgtg atacaaacta gaagtagaag tgaaagtaca 240
 gtggagtctt tctttgcgag aggtgcatgt gtaaccatta tgggagtggg caactataat 300
 gagacattga aaggagacca gaagtctact ctattttaca cctggaacat cacctacact 360
 gagacagtcc agctacggag aaaactggaa atgttcactt actccagggt tgacatcgag 420
 tttacttttg tgggtactga acgctactac tcatcaaaca gtgggcatgc tctgaaccaa 480
 gtgtacaaaa ttatgtatgt accacctgga gcaccagtgc caaagaaatg ggatgattac 540
 acctggcaaa cctcttcaaa cccgtccata ttctacactt atgggtcagc accaccaggg 600
 atatccatac cctttgtggg tatagcaaac gcttactccc acttctatga tgggtatgag 660
 acagtgccct tgaaaactga caccacagac tcaggagcag cctactatgg agcagtatcc 720
 ataaacgact tcggactgct tgcagttcgc gtcgtcaatg aacataatcc agtcagagta 780
 tcatccaaaa ttagagtgtg tatgaaacca aaacatgtca ggggtatggg tcccagacct 840
 ccaagggtct tagagtatta tggaccagga gtggactaca aggcaaacac tttaacaccg 900
 ttgccaataa agaatttgac tactttat 927

<210> 34
 <211> 888
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence; Note =
 synthetic construct

<400> 34
 ggtgacaaag tggcagacat gattgagacc gcagtggaga agaccgtgtc ctactaact 60
 tcccctattc aaacccccac agccgccaac acaaacgtga gtaatcatcg aattgagctg 120
 ggggaagtcc cggcttttgca agctgctgaa accggcgcga cgtctcttgt gtctgatgaa 180
 tacttgatag agactcgttg tgtagtgaat agccatagta cagaggaaac tacagtgggg 240
 cacttctttt caagagcggg gttgggtggga gtgattgacc tcccattaca gggaacagtc 300
 aacacaggag gattcgcctc gtgggatatt gatgtaatgg gatatgttca gatgagaagg 360
 aaacttgagc tgttcacata tgcccgcctc gatgcggagt ttaccttcat agcttccacc 420
 ccagatggcg aggtgaagcc agtgttctta cagtacatgt tcgtcccccc tgggtgcacca 480
 aaaccaacag ggcgcaacac ctacgaatgg caaactgcaa caaacccttc tgtgttggtc 540
 aagagcacag atcctccagc acaagtctct gtaccgttca tgtcaccagc cagcgcatat 600
 cagtggttct atgacgggta cccaaccttt ggaaagcacc tgcttgctga tgactttcag 660
 tacggtatga ccccaaataa catgatggga tcgttctgtg ccaggatagt gggggaagga 720
 gcgcctagtg tacacttggt tatccgtatc tacatgcgca tgaaacacgt gcgggtgtgg 780
 attccacgac ctatgcgcag ccagccatac gttgcgaaga attaccctaa ctacaagggt 840
 tctgagatca agtgcgcatc atctagtcgt aagtcaatca ccacatta 888

<210> 35
 <211> 912
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence; Note =
 synthetic construct

<400> 35
 gggccaatag aggagatcat ctgcaccgtc gccagcaatg cacttgccct cagtcagcct 60
 aaaccggtgg ataattctgt acaaaacacc caacagagcg cgcccgtgca cagccaagag 120
 gttccagcat taacagcagt agagactgga gcaacaagtg atgtggtgcc agctgatcta 180
 gtgcaaacca ggcattgagt gaatgtcaag tccagatctg agtccactat cgagtcgttc 240
 tttgcaagag ctgcctgcgt gactattatg caggttgata actttaatgc caccaccagc 300
 gaggacaaga ggaagttatt tgccaaatgg gccatcacat acacagacac agtacaattg 360
 aggaggaaat tggaattttt cacgtactcc aggttcgata ttgagatgac tttcgtgcta 420
 actgaaagat actattctca gagctcggga cacgctagat cgcagggtgta tcaaatcatg 480
 tacgtccctc caggagcacc aacaccaaata gcatgggatg attacacgtg gcagacgtct 540
 tctaaccat caattttctt caccactggt aacgcacccc caggggtttc aatcccat 600
 gtgggcattg caaatgctta ctacacttt tatgatggct tcagcagggt acctttggaa 660
 ggagagacca ctgactcagg tgacgcttat tatggcctca cttctatcaa tgactttgga 720
 acacttgtag taagagtggg caatgactac aaccagcga gagtgagagac aaggatcaga 780
 gtctacatga aacctaagca tgtgagagtg tgggtgtccac gacccctag ggctgtgagc 840
 tacagaggac ccggtgtgga cctactgtcc acctcagtga cgcccctatc taagcatgaa 900
 ttgacaacgt ac 912

<210> 36
 <211> 918
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence; Note =
 synthetic construct

<400> 36
 ggcattgaag acttgatcca acagggttgca tcgaatgcgc tgcaaattctc acagccgacg 60
 cgtccggcac tgccctctac agaaagtctt cccaacacac aacaatcggc accttcgcat 120
 tctcaagagg tcccggcgct gacagcagtt gagacaggcg cgacaaatcc attggagccg 180
 tctgacacgg tacaaacaag gcatgttata cagactagat ccaggtcaga gtccacaata 240
 gagtcccttct tcgcgcggtg tgcattgtgtg acaatcatga cagtggaaaa ttttaacgcg 300
 actgaggcgg cagacaagaa aaagtgtgtc gccacttgga atattacata cacagacaca 360
 gtgcagctca gaaggaagtt ggagatgttc acttactctc gatttgacat tgaatttacc 420
 tttgtcacca cagaaaggta ctacgccagt aactcaggcc atgcgcgtaa tcagggtttac 480
 caactcatgt atgtaccccc aggagccctt gtgccacaac aatgggatga ttacacgtgg 540
 caaacttcct ccaaccctac ggtgttttac acatacgggtg acgctccagc gcgcatttcc 600
 ataccatttg tagggatagc taatgcctat tcccactttt atgacggcta tgcagtgggtg 660
 ccattgaaag attccacca ggatgctggt gctgcctatt atggtgcaac ctcaattaat 720
 gattttggaa tgttggcggg gagagtagtc aacgaattca acccagccag aatcacatct 780
 aaattgagag tgtacatgaa accaaagcat gttagggtgt ggtgtcctag accaccaagg 840
 gtggtgccgt acttcggacc cgggtgttgat tataaggata gtttgacacc gctttctaca 900
 aaagcactca acacttat 918

<210> 37
 <211> 927
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence; Note =
 synthetic construct

<400> 37
 ggcttggaag acctcatcca acaagtggcc acgaatgcat tgagtctgtc gcagcccaca 60
 agaccgcac ttccaccagc agaacaaagt gtgccaaaca ccagtcagac caccacagaa 120
 cattcaaagg aagtaccgc actcactgca gtggagaccg gtgcaaccaa cccattggaa 180
 ccaggtgaca cagtgcaaac tagacatgtt gttcaaacaa gatcaaggag cgaaagtacg 240
 gtggaatctt tctttgcaag aggggcgtgt gtcacgatta tgggagttga caattacaat 300
 gaaagcttga ccagtagtca aaaatccacc ctattcgcca cttggaatat tacatacact 360
 gatacagtag agttgaggag aaaattggaa atgttcacct actccagatt tgacattgaa 420
 tttaccctcg tagtaactga acgttactac tcgtcaaaca gtggccatgc cttgaatcag 480
 gtgtatcaaa tcatgtatgt gccaccaggc gctccaattc ctaagaagtg ggatgattat 540
 acctggcaaa catcatcaaa cccctcaata ttctacacct atggaacagc accaccacga 600
 atttcgatcc cttttgtggg cattacaaac gcgtactcac atttttatga cggatatgcg 660
 actgtaccac tcaagacaga cactacggat ccggggcgcg ccttctatgg agcagtttcc 720
 atcaatgact ttggtttgtt ggcggtgcga gttgtcaacg agcacaaccc ggtaagagtg 780
 tcttcaaaga taagagtgt catgaagcct aaacatgtca gagtgtggtg cccacgacca 840
 ccacgtgccg tggagtacta cggaccaggg gtagattaca aggcaaacac attgacacct 900
 ctccctacca agaacttaac tacttat 927

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<210> 38
 <211> 888
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence; Note =
 synthetic construct

<400> 38
 ggtattgatg atatcataga taatgttgta accaatgctt tgaagggtgtc catgccacaa 60
 gttcaagata cgcaatctag tggaccagtt aactcaaaag aagtacctgc attaacagct 120
 gttgaaacag gggctactag tcaagttgac ccatcagacc taatagaaac tagacatggt 180
 attaataacc gcctcagatc tgagtgcaca atagaatcat tctttgggag gtcagcatgt 240
 gtggccataa ttgggttatc taaccaaaaaa ccaccagtg acaatgcagc caagctcttt 300
 gctacatgga agattagtta tcttgatatg tatcaattga gaagaaaatt ggaattcttc 360
 acatactcca gatttgatct tgagttaacc tttgtaattt cagaaaagatt cttcacctca 420
 acttcagctg ctgcaagaga ttatgtatac cagatcatgt acattccccc aggagcccct 480
 atccctcagg tatgggatga ttacacatgg caatcatcca caaaccctc aatattctac 540
 accacaggaa atgcatgccc tagagtgtcc atcccttttg ttgggatcgg tgcagcatac 600
 tctcacttct atgatggatt ctcttttagta cctttcaata ccatcgatgc tgggtgcttca 660
 aacaggtagc ggtacaccac cataaatgat tttgggacta tggcaatcag gatagttaat 720
 gaatacgacc cagtcacaat tgatgcaaaa gtcagggttt acatgaaacc aaagcatatt 780
 aagggtgtgt gccccagacc tccacgggca gtagcataca atggggccaac agtgaatttt 840
 aatgaaaacc cccatgtaat gacagcagtt gctgatatta gaacttat 888

<210> 39
 <211> 909
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence; Note =
 synthetic construct

<400> 39
 ggtatcgaag atcttatcac cgaagttgca agcaacgctc tgaagttgtc acaacaaaaa 60
 cccagcacac aacagagttt accaaacact agtagctcag aaccaactca ctctcaggaa 120
 gcgcggcat tgaccgcagt agaaacagga gcaactagta gcgtagtacc agctgatctg 180
 gtccagacgc ggcattgtgat acaaacacgt agccgaagtg agtctacagt tgagtcattc 240
 tttgctcggg gggcgtgtgt aacaatcatg tcagtggaaa attacaatga aaccgctatc 300
 gcagagtcca aattattttac caagtggaaac attacctaca cagacacagt ccagttgaga 360
 agaaaaactag agatgttcac atactccaga tttgatattg agttcacatt tgtggtgact 420
 ggcggttacc actccgcaaa ctcaggtcat gcactaaatc aagtttacca gatcatgtat 480
 gttcctccag gtgcaccagt gccacaaaga tgggacgact acacatggca aacgtcatcc 540
 aaccctcag tctttttatc ctatggtaca gcaccagcca gaatatcgat tccatatgta 600
 ggcatagcca atgcctactc gcatttttat gatggcttcg ccaaagtgcc cattgaaggc 660
 gagacgtcag atccaggtga tgcatactat ggtgcaacgt ccatcaatga tttcggcatc 720
 ttagccatac gtgtggtcaa cgaacacaat ccagtgcaag tttcttccaa gattagagtg 780
 tacatgaaac ctaaacatgt gcgcgttttg tgtcccagac cacctagagc tgttccatac 840
 tttggccccg ggggttgatta taaaggtgac gccctcacac cactatcacg caaggattta 900
 accacctat 909

<210> 40
 <211> 888
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence; Note =
 synthetic construct

<400> 40
 gggattgagg atacaatcga aaaagtgggtt ggtgatgctc taagggtctc aatgccacaa 60
 gttgccaaca ccagccatc aggaccgta aattctaagg aagttccagc actgacagca 120
 gtggaaacag gtgcaaccag tcaagtcacc cctgaagatt tgatcgaaac caggcatggt 180
 attaacaata gactaagatc tgagtgcact gtggaggcct tctttggaag gtctgcatgt 240
 gttgccatcc ttggtgtggt aaacaaaaag ccagacacca caaatgccaa agacctcttt 300
 acaacatgga ggatcactta cctgcaaact tatcaactga ggaggaaact cgaactcttc 360
 acgtatttcta gatttgattt ggaattaacg tttgtcatta cagaaagata cttttcaggg 420
 acagcagcca caaccagaga ttatgtttac caaataatgt atgtaccacc aggagcccc 480
 ataccaaaata cctgggacga ctacacctgg cagtcatcta ccaaccctc tgtcttctac 540
 accacaggca atgccagccc acgcatgtct ataccctttg ttggtattgg tgccgcctat 600
 gctcactttt atgacgggtt cagtgtggta ccattcaatc aaatagatgc aggagcatcc 660
 aacaaatgat gctactcatc aatcaaagac tttggtacat tggcagttag aattgttaat 720
 gagtttgatc cagtgacaat agaggctaaa gtcagagtgt acatgaaacc caaacatgtc 780
 aggggtgtgt gtccaagacc acctcgtgca gtaccatatc aaaactcatc agttgatttc 840
 gcccaaaacg cagtagcaat gaaccaagta gccacaatta ggacgtat 888

<210> 41
 <211> 915
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence; Note =
 synthetic construct

<400> 41
 ggtatcgaag ataccattga cactgtcatt aacaatgcc tacaactatc tcaaccacag 60
 ccaaataagc agttgacagc tcagtctacc ccctccacaa gtggagtaaa ctcccaggag 120
 gttccagctc tgaccgctgt ggaaaccggt gcctcgggac aagcagtgcc cagtgatgtg 180
 attgagacca gacacgtggt taattataag acccgatctg aatctactct tgagtctttc 240
 tttggaaggt cagcttgtgt caccataatt gaggtcgaga acttcaatgc cactagtga 300
 gcagacaaga ggaaacagtt caccacttgg ccaatcacat acaccaatac cgtgcaattg 360
 cgcaggaaac tagaattctt cacttactcc aggtttgacc tagagatgac ctttgtagt 420
 acagaaaagat attatgccag caacacaggt cacgccagaa accaagtgtg tcaaataatg 480
 tacattcctc ctggtgcacc acaaccaca gcatgggatg attacacgtg gcaaagctct 540
 tcgaatccgt cagtctttta cacttatggg agtgtccac ccaggatgtc tataccgtat 600
 gtcggtatcg caaatgcata ctctcttttt tatgatgggt ttgcacgagt accactgaag 660
 gacgaaacag cggaactcagg tgatactttt tacgggctag tcaccatcaa tgattttgga 720
 accttagcaa taagagtagt gaatgaattt aaccagcta ggattacatc aaaaattaga 780
 gtgtatatga aaccaaagca tgtaagatgc tgggtgcccta gaccaccacg tgcagtgcc 840

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caagtcaact ttacagtgac tggagtgacc gagagtaggg caaatataac caccatgaat 840
actaca 846

<210> 44

<211> 852

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence; Note =
synthetic construct

<400> 44

ggtgatgtgc agaatgctgt cgaaggggct atggtcaggg tggcagatac agtgcaaact 60
tcagccacaa actcagagag ggtgcctaac ttgacagcag tagaaactgg tcacacttcg 120
caggtagtac ctggtgatac catgcagact agacatgtga tcaacaatca cgtgagggtca 180
gaatctacaa ttgagaactt ccttgccaga tcagcgtgtg ttttcttcct agagtacaag 240
acagggacca aagaggattc caatagcttc aacaattggg tgattacaac caggcgagtg 300
gctcaactac gtagaaaact ggaaatgttt acttacctac ggtttgacat ggaaatcacc 360
gtggtcatta caagctcgca agatcagctt acatcacaaa accagaatgc accagtgcta 420
acacaccaga taatgtatgt accaccaggg ggacccatac ccataagcgt ggatgattac 480
agctggcaaa catccaccaa cccagtatc ttttgaccg aagggaacgc tccggcacgc 540
atgtcaattc catttattag cataggcaat gcgtatagta atttctacga tgggtggtct 600
cacttctccc agactggcgt gtatggcttc actactctga acaacatggg tcaattgttc 660
ttccggcacg taaacaagcc caaccagcc gctattacaa gtgtggcgcg catttacttc 720
aaaccgaaac atgtacgcgc ttgggtgcct agaccaccgc gcttgtgtcc atacatcaat 780
agcacgaatg tcaactttga acccaagcca gtgactgaag tacgtaccaa cataataaca 840
acgggtgcct tc 852

<210> 45

<211> 882

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence; Note =
synthetic construct

<400> 45

ggagatgagg tgaagcatga acccacagtg gccaacacaa cagcaagtgg accatcaaat 60
tcacaacaag taccggcact cacagcagtg gagactgggc acacctcaca ggtgggtcca 120
agcgatacca tacaaccag acatgttcac aattaccata gtagaactga atccaccctg 180
gagaacttcc tcggaagatc agcatgcgtg cacattgact cgtataagac caagggagtg 240
accggcgaga gcaccggta cgcacatgag gagatcacca ctccgcgagat ggtgcagctg 300
cggagggaagt gtgaactctt cacctacatg cgatatgata tagaaatcac gtttgtgatt 360
acaagtcgcc aggagcaagg ggccaaactg tcgcagaaca tgccagtatt aacacatcag 420
atcatgtatg tcccaccggg cgggcctata ccaaccagca acgagagtta cgcttggcaa 480
acgtcaacga acccaagcgt gttttggaca gaaggaagct cgccaccacg aatgtcaata 540
ccgtttgtta gcataggaaa cgcatacagc aatttctatg atgggtgggc gcacttctca 600
caaaacggtg cgtatgggta cagggcacta aacaagatgg gtaggatatt cgtgcgccat 660
gtaaacaaag agacaccact gcaagtcata agcacaatac ggatgtatat gaagcccaaa 720
cacgtgcggg cttgggtgcc aagaccacca cgctgtgtc catacctgcg ggcgggtgat 780

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ataaactttg aagtgactga tgttacagaa aaacgaaata acatcaatta tgtcccaacc 840
ccatcccaca gcagcagtgt gcacatgcgc ttgaacaacc at 882

<210> 46
<211> 879
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence; Note =
synthetic construct

<400> 46
ggggacgtcg aagaggcaat tgatagggca gttgagggg tggctgacac aatgcccaacc 60
gggccacgaa aactgagag cgtgcctgcc ctgacagcag tagagacagg ccacacctca 120
caggtcgttc ctggtgacac aatgcagacg aggcattgta agaactatca ctccaggaca 180
gagtcacaa ttgaaaactt cctgtgcagg gctgcgtgcg tgtatataac aacatacaaa 240
tcagctgggtg gaacaccac agagcgatat gcaagttgga ggataaacac caggcaaattg 300
gtgcagctca ggaggaaatt tgagctcttc acataactgc gctttgacat ggaaatcaca 360
tttgtgatca caagcacaca agatcctggg acacaattgg cacaagatat gcctgtacta 420
actcatcagc tcatgtatat cccacctggg ggccctgttc ctaacagtgc cacagatttt 480
gcatggcaat catcaactaa tccaagtata ttttggacgg aaggctgtgc tccagcacga 540
atgtcgggtgc cgttcacacg cattggcaat gcctacacca atttttacga tgggtgggtcg 600
catttcaccc aagaaggggt ttatgggttt aactcactga acaacatggg ccacatatat 660
gtgaggcacg tcaatgagca aagcctgggt gtctcgacca gcaccgttcg cgtgtatttt 720
aaacccaaac atgtgcgtgc ttgggtacca agaccacca gactgtgcc atactaag 780
agttcaaattg tgaatttcaa accgaccgct gtcactgatg agcgaaagga tatcaacgat 840
gtaggcaccc ttcgaccaac agtgtacact aaccttgtg 879

<210> 47
<211> 843
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence; Note =
synthetic construct

<400> 47
gggacgtgc aagatgcagt gacaggtgct atagtacgtg tcgctgacac tctcccaaca 60
ggccctcaa ataataagc tataaccaat ttaacagcag tggagactgg ccataacctg 120
caagtgcac caggcgacac aatgcaaaca cgccatgtgg tgaacatgca caccgctct 180
gagtcgtcca tcgagaattt cctggcacgt tcagcatgcg tgtactacct tgattacaa 240
acgggagaag ggcccgga tcagtatttt ggccagtggg ccattaccac gaggagggtt 300
gcgcaattgc gtcgaaagct ggagatgttc acttatctaa gatttgacat ggaaatcaca 360
atcgtgatta ctagtccaca ggatcaatct accatctcga acccagatac accagttttg 420
acgcacaaa ttatgtatgt accaccagga ggaccaatcc cagcaaaagt cgatgattac 480
agttggcaaa catccacgaa tcccagcgtg ttctggactg aagggaatgc gcctgccgr 540
atatccatcc cattcattag cgttggaat gcatacagta gcttttatga cgggtgggtcg 600
aacttctcac aaaacggggt gtatggctac aataccctca acaacatggg acaattgttc 660
tttaggcacg ttaacaaacc cagccctaact actgtcaca gcgtcgccc catatacttc 720
aagcctaagc acgtgagagc ttggatcccg cgaccaccgc ggttgtgtcc atacataaat 780

gcgggagacg tgaacttcac tccgacacca gtgactgaaa agcgaaagga cctaataacc 840
acg 843

<210> 48

<211> 843

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence; Note =
synthetic construct

<400> 48

ggagatgtgc aggacgcagt ggctggggcc atagtgcgtg tggctaatac tctcccatca 60
ggcccctcaa acaatgaggc tatacccaac ttaacagccg tagaaactgg acacacctcg 120
caggtgacac cgggtgatac aatgcagacg cgccacgtag tgaacatgca cactcgttct 180
gagtcgtcaa tcgagaactt cctggcgcggt tcagcatgtg tatactacct cgattaccga 240
acaggaacgg ggctggcaa tcaatacttt agccagtgga ctattaccac aagacgagtt 300
gcgagctgc gtcgaaaatt ggagatgttc acctatctaa ggttcgacat ggagatcacg 360
attgtaataa cgagttcaca agatcagcct accgtccgaa acccagacac accggtcttg 420
acacacccaaa tcatgtatgt gccaccagga gggccaatcc cagcaaaggt cgacgattac 480
tggtggcaaa catccacaaa cccagtggtc ttctggactg aagggaacgc accagcccg 540
atatccatcc cgttcatcag tgtcggaat gcataatagta gtttctacga tggatgggtca 600
aatctctcgc aaaatggggt gtatgggtac aacaccctga acaacatggg gcaattgttt 660
ttcaggcatg tcaataaacc cagtcaccaac actgtcaca gtgttgccc catatacttc 720
aagcccaaac acgtgaaggc atgggtccc cgaccaccgc gattgtgccc ttacattaat 780
gctggagatg taaatttcac ccccatcgc gtcactgaga agcgagcgag cctgataacc 840
aca 843

<210> 49

<211> 843

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence; Note =
synthetic construct

<400> 49

ggggacgtgc aagatgccgt gactggagcc atagtgcgtg tcgccgacac actgcacacg 60
ggaccctcga acaacgaagc aatacccaat ttgacggccg tggaaacagg gcatacatcg 120
caagtgcac caggcgatac aatgcagacg cgtcacgtgg tcaacatgca caccggttca 180
gagtcaccaa ttgagaactt cctagctcga tctgcgtgtg tgtattacct cgactatcaa 240
acagggtcag gacctggcac ccaatacttc ggccagtgga ccatctccac aaggagagtt 300
gcgcaactgc gccggaagtt ggaaatgttc acctacctaa gatttgacat ggaaataaca 360
atcgtgatca ccagttcgca agatcactcc accatctcaa atccagatac accaatcatg 420
acgcacccaaa ttatgtacgt accaccaggg ggtccaatcc cggcgaaggt cgacgactat 480
agctggcaaa catctacaaa ccctagtgt ttttggacag aagggaacgc acccgcccgc 540
atatccattc cattcattag tgtcggaat gcctatagca gcttctacga cgggtgggtca 600
aatctctcgc aaaacggccg atatggatac aacactttga acaacatggg acaactattc 660
ttcagacacg tgaataagcc cagccccaac accttcacaa gtgttgccc tgtatacttc 720
aagccaaaac acgtgaaggc gtggattcca cgaccaccgc gattatgtcc atacataaat 780

gcgggagacg tgaatttcaa accaacaccc gtgaccgaaa agagggcgag cttaatcacc 840
aca 843

<210> 50
<211> 876
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence; Note =
synthetic construct

<400> 50
ggagactcag agcacgcagt ggaaagcgcc gtatctaggg tggcagatac aattatgagt 60
ggcccgtaa actcccaaca ggtcccgcgt cttactgcag ttgaaactgg acacacatcg 120
caagttgttc caagtgtatc catccaaacc agacatgtgc agaatttcca ctctagggtcc 180
gagtcgacca ttgaaaattt cctgagtagg tcagcatgtg tgcataatcg caattacaac 240
gcgaagggcg ataagacgga tgtggacagg tttgacaggt gggagatcaa cattcgtgaa 300
atggtgcaac tacgtaaaaa gtgtgagatg ttcacatatc tacgctatga tattgaagtt 360
acatttggtta taaccagcaa acaggatcag ggccccaac taaaccagga tatgcctggt 420
cttaccaccc aaattatgta cgtaccccca ggaggttcag tacctagcac cgttgagagc 480
tatgcgtggc aaacatcaac aaaccctagc gtgttttggg ccgaggggaa cgctccagct 540
agaatgtcca taccctttat cagcataggg aacgcttata gtagcttcta tgatggatgg 600
tcacacttta ctcaaaaagg ggtctacgga tacaacacat taaacaagat ggggcagcta 660
tttgtcagac atgtgaacaa acagaccccc acgccagtta ctagtaccat aagggtttac 720
ttcaaaccaa agcacattag agcttgggtc cctaggcccc cgcggttatg cccctatgtg 780
aacaagacaa atgtaaactt catcaccaca caggtaacag aacctacaaa tgacctcaat 840
gacgtgcccc agtctgagca taacatgcac acatat 876

<210> 51
<211> 867
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence; Note =
synthetic construct

<400> 51
aacgacgttc agaacgcggt ggaacggtca attgttcgtg tagcggacac attaccaggt 60
gggccaagca actcagaaaag cataccagca ctacacagcag ccgagactgg acatacctcg 120
caggtcgtcc ccagcgacac catccagacg cgacatgtga ggaattttca cgttcggtct 180
gagtcacggt tagagaattt tcttagcagg tcagcttgcg tgtacatcgt ggagtacaaa 240
accggtgaca cgactcccga caagatgtat gatagctgga ttatcaatac caaacaagtg 300
gcgcagttga gaagggaagct ggagttcttt acctatgtca gattcgcagct ggaagttacc 360
tttgtcataa ccagcgtgca agatgactcc acaaaacgga acaccgacac cccagtgtca 420
actcatcaaa ttatgtatgt gccgccagga gggcccatat cacaagcggt ggacgattat 480
aactggcaaa cttccacca cccagcgta ttttggactg aggggaacgc gccaccaagg 540
atgtctatct cgttcatgag tgttggaat gcatacagta acttctacga cgggtggtcc 600
cacttttctc aaactggggt ttacgggttt aacaccctaa acaacatggg taagttatat 660
ttcaggcatg taaacgacag gactattagc ccaatcaaaa gtaaggtcag aatatatttc 720
aaacccaaac acgtgaaggc atgggtaccc agaccgccga gattgtgtga atacaccac 780

aaggataacg tggactatga accaaagggg gtcacaacat cacgcacttc aatcaccatc 840
 accaactcca cacacatgga gacgcac 867

<210> 52
 <211> 867
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence; Note =
 synthetic construct

<400> 52
 aatgacgttc aaaatgcagt cgagcaatca attgttcgtg tggctgacac gttacccagt 60
 ggacccagta attcagagag cataccggca ctgacggccg ccgagactgg ccatacttct 120
 caagttgtgc ccagtgtatc tatacagaca cgccacgtaa aaaactttca tgtgaggtcg 180
 gagtcgtcag tagagaactt tctcagtagg tccgcttgcg tgtatatagt gggatacaag 240
 accacagatg cgacccctga caaaatgtat gacagctggg ttatcaacac aaggcagggtg 300
 ggcgagctaa ggagaaaatt agagttcttc acctatgtta ggtttgatgt tgaggtcacc 360
 tttgtgataa caagcgtgca agacgattca actagacgga acacagacac ccccgttcta 420
 acccaccaaa tcatgtacgt acccccaggt gggcccaccc cgcaggcagt ggacgactac 480
 aattggcaaa cttccacaaa tcccagtgtt ttttggacag aagggaatgc cccaccaaga 540
 atgtccatac cattcatgag cgtaggtaac gcatacagca atttctatga tgggtggtct 600
 cacttctctc aaactggggg gtacgggttt aacaccctga acaacatggg caagctatac 660
 ttcaggcatg tgaacggcaa gacaataagc cctatcgcaa gcaagggttag gatttacttc 720
 aaaccaaagc atgtgaaggc atgggtgccc agaccaccgc gattgtgtga atacaccac 780
 aaggacaatg tggattacga accaaagggg gtcacaacat cccgtacatc tatcacaatt 840
 agcaattcca ctcatatgga aacatat 867

<210> 53
 <211> 867
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence; Note =
 synthetic construct

<400> 53
 aacgacgttc agaacgcggt ggaacggtca attgttcgtg tagcggacac attacccagt 60
 gggccaagca actcagaaag cataccagca ctacacagcag ctgagactgg acatacctcg 120
 caggtcgtcc ccagcgacac catccagacg cgacatgtga agaattttca cgttcgggtct 180
 gagtcacggt tagagaattt tcttagcagg tcagcttgcg tgtacatcgt ggagtacaaa 240
 acccatgaca cgactcccga cgagatgtat gatagctgga ttatcaatac cagacaagtg 300
 ggcgagttga gaaggaaagc ggagttcttt acctatgtca gattcgacgt ggaagttacc 360
 tttgtcataa ccagcgtgca agatgactcc acaagacaga acaccgacac cccagtgtta 420
 actcatcaaa ttatgtatgt gccgccagga gggcccatac cacaagcggg ggacgattat 480
 aactggcaaa cttccaccaa ccccagcgtt ttttggactg aggggaacgc gccaccaagg 540
 atgtctatct cgttcctgag tgttggaat gcatacagca acttctacga cgggtggtcc 600
 cacttttctc aaactggggg ttacgggttt aacaccctaa acaacatggg taagttatat 660
 ttcaggcatg taaacgacag gactattagc ccaatcaca gcaagggtcag aatatatttc 720
 aaacccaaac acgtgaaggc atgggtaccc agaccgccga gattgtgtga gtacaccac 780

aaggataacg tggactatga accaaagggg gtcacaacat cacgcacttc aatcaccatc 840
 accaactcca cacacatgga gacgcac 867

<210> 54
 <211> 876
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence; Note =
 synthetic construct

<400> 54
 ggcgacaccg aaacggctat tgacaatgca atcgccaggg tagcagatac ggtggcgagc 60
 ggtcctagta attcgaccag tatcccagca ctccacagcag ttgagacagg tcacacgtca 120
 caagtcgagc ccagcgatac agtgcaaact agacatgtca aaaactacca ctcgcggttct 180
 gagtcaaccg tggaaaactt tctaagtcgc tccgcttggtg tgtacatcga agagtactac 240
 accaaggacc aagacaatgt taataggtac atgtcgtgga caataaatgc cagaagaatg 300
 gtgcaattga ggagaaagt ttagctgttt acatacatga gatttgatat ggaaatcacg 360
 tttgtaatca caagtagaca actacctggg actagcatag cacaagatat gccgccactc 420
 acccaccaga tcatgtacat accaccagggt ggcccggtag caaacagcgt aacagatttt 480
 gcgtggcaga catcaacaaa ccccgattt ttctggacag aaggaaacgc gccacctcgc 540
 atgtctattc cattcatcag tattggcaat gcataatagca acttctatga cgggtgggtca 600
 cacttttccc aaaacgggtgt gtacggatac aacgcctga acaacatggg caagctgtac 660
 gcacgtcatg ttaacaagga cacaccatac cagatgtcaa gcacaatccg agtgtatttc 720
 aaacccaagc acatccgagt atgggtccca cgccgcctc gactgagccc gtacatcaaa 780
 tcaagtaatg taaattttta cccacgaac ctgacggacg agcggtcac catcacatat 840
 gtgcccagaca ctatacgtcc agatgtgcgc accaac 876

<210> 55
 <211> 843
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence; Note =
 synthetic construct

<400> 55
 ggtgatgtcc agaatgcagt tgagggggca atgggttagag ttgcagatac cgtgagcact 60
 agcgccacca actccgaaca agtgccgaac ctgaccgcgg tggagaccgg tcacacatcg 120
 caggtagtgc ccggcgacac tatgcagacc aggcacgtag tgaacaagca tgtgcgatct 180
 gaatctacaa ttgaaaattt cctcgacgt tcagcctgtg tgtactttct tgagtacaag 240
 actggtacca agactgactc caacgccttc agcaattggg tcatcacaac gcgcaaggtt 300
 gcgcagctga ggcgcaagtt ggagatgttt acatacttaa ggtttgatat ggagattact 360
 gtggtcatta ctagctccca agaccagtc acatcacaaa atcaaaaatgc gcccgctctg 420
 actcaccaga ttatgtatgt accacctggg ggcccagtc ccactagcgt tgatgattat 480
 tgctggcaaa catccacaaa cccaagcata ttttgacgg aaggaaacgc acctgccaga 540
 atgtccatcc cctttatcag cattggaaat gcttatagca acttttatga tgggtgggtca 600
 catttctcac agaacggagt ctatggtttt accaccttaa acaacatggg ccagctgttt 660
 tttaggcatg ttaacaagcc taaccggcg acaataacca gtgtggccc catttacttc 720
 aagccaaaac atgtgagggc ctgggtgcct agaccgccac ggttgtgccc ttacatcaac 780

108260 20020901

agtagcaacg tgaacttcga cccaaaacct gtggcagagg tcagggtctag catcatcacc 840
acc 843

<210> 56
<211> 876
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence; Note =
synthetic construct

<400> 56
ggtgatgtgg ttgaagccat tgagggcgca gttgctagag tagcagacac tatcagcage 60
ggccaacaa attctcaagc agtcccagca ctacacagcg tggagactgg acacacctcg 120
caagttgtac caggtgatac catgcagacc agacacgtaa agaattacca ctacgatca 180
gaatcgacca ttgaaaattt tctgagtagg gcggcttgtg tctacatggg tgagtattac 240
actacaaata cagatgagac caagagattt gctaattgga caatcagcgc aaggcgcatg 300
gtacaaatga ggaggaagct tgaaatgttc acgtacgtcc gtttcgacgt ggaggtgaca 360
ttcgtaatta ccagcaaaac ggaccaaggg aatcggttgg gacaagatat gccccgctc 420
acacaccaga taatgtacat cccgccaggt ggtcgtatac ccaaaccac cacagattac 480
gcatggcaaa cgtcgacaaa cccagcatc ttttgacgg agggtaacgc gccccccagg 540
atgtccattc ctttcatgag cattggaaac gcatatagca atttttatga cggttggtct 600
cacttctctc aaaatggcgt gtacggatat aacacactaa accacatggg tcaattatac 660
atgcgccatg taaatggacg atcacctctt ccaatgacca gcacggtgag ggtgtacttc 720
aaacccaaac atgtgaaaac atgggtgcca cgaccccaa gattgtgcca atacaaaaac 780
gcctcgacag taaacttttc acccacaac atcacagaca agagggatag catcacttac 840
attccagaca ccgtgaaacc cgacatgaca acatat 876

<210> 57
<211> 861
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence; Note =
synthetic construct

<400> 57
ggggatgaga gtgcaaaggc tacagtttcc aacacacagc ctagcgggtcc aagtaattct 60
gtcagcgtgc caatgcttac tgctgctgag accgggcaca catctcaagc agtaccaggt 120
gacactatac agaccaggtg cgtagtgaac caacacaagc ggtcgggaatc atccgtggaa 180
aatttcctgt gtcgctccgc ttgcgtatac tacacaacct atgacactca cggggatgca 240
gccgacgcaa agtacgccag ttggacgata accaccgaa aagctgcaca gctgcggaga 300
aaactagaga tgttcacata cttgaggttt gatttagaag tgacattcgt tataacaagt 360
gcacaagtaa catctaccaa taaacgtcag gacacgcctg ttctcacgca tcaagtcag 420
tacgtgccac caggtggtgc agtaccgct agtggtgacg attatgcgtg gcagacgtcc 480
acaaacccaa gtatcttctg gacggaaggg aatgcaccag cacgcatgtc tatacccttt 540
atcagcgtgg gcaacgcata cagtagcttc tatgatgggt ggtccaactt tacacagaat 600
ggagtttacg ggttcaacac gctaaacaac atgggaaagc tatacgtacg acacgtcaat 660
ggagctagcc ccggccctgt gaagagtacc atacggtttt acatgaagcc caaacacgtg 720
aaggcttggg taccagacc tcctcgctc tgcgagtacg aaaaatcagg caatgtaaac 780

108260 298269 092301

ttcaaaccga agggcgtgac agagagccgg acgtctatca aattagaaaa accaaaccct 840
gcgtccaaat taatgaacca c 861

<210> 58

<211> 894

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence; Note =
synthetic construct

<400> 58

aatgatccag	agcaagctat	aaatcgggcg	ctagcgaggg	tggcagacac	agttcgtagt	60
gggcccgtcta	actctgaaca	aattcccgcga	ctgacagccg	tggagacagg	gcatacatca	120
caagtcgtcc	ccagtgacac	aatgcaaacc	cggcatgtga	agaattacca	ctccagggtca	180
gagtcacaaca	tagagaactt	tttgtgtaga	tcggcttgcg	tgcacatcgc	aacatacaag	240
gctaaaggcg	gagctggaga	cgtcgaccgg	tacgacagct	gggacataaaa	cataaaaagag	300
ctggtacagt	tgcgacgcaa	gtgcgagatg	tttacgtacc	taagggtttga	tatggagggtc	360
accttttgtga	ttaccagcat	acaggagcag	ggcaaagcac	tgacccaggga	catgccgggtg	420
ctaacgcacc	aaataatgta	cgttccaccg	ggcgggtgccg	tgccctagtgg	tgcaaaaagc	480
tttgcggtggc	agtcatacaac	gaatcccagt	gtgtttctgga	cagaaggcaa	tgcaaccagca	540
cgtatgtcta	taccctttat	aagtattggg	aacgcttaca	gtaattttcta	tgatgggtgg	600
tcccacttta	cccagaacgg	tggttacggg	tacaacacac	taaacaaact	gggtaagatc	660
tacgtcaggc	atgtgaacaa	acaaaccccc	acggatgtca	ccagcaccgt	gcgaattttac	720
ttcaagccca	aacacgtgcg	agcttgggtg	cctcgccgcg	ctagactatg	tccttataag	780
aacaaggcaa	atgtaaactt	tgaagttact	agtgtaacca	ctgccagAAC	gagtcctaat	840
gatgtcccca	ctcccaacca	cagtagtagc	gtgcacctgc	gcacgcacac	gcac	894

<210> 59

<211> 882

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence; Note =
synthetic construct

<400> 59

ggtgatgacc	aacacaagac	caatacagt	acagacacag	agcagagtgg	cccgtcaaat	60
tccgaacgcg	ttccagccct	cacagcagt	gagactggcc	acacttcgca	ggtcgtaccc	120
agcgacacag	tgcaaaactcg	ccacgtacgc	aattaccact	caaggacaga	gtctacctta	180
gagaattttc	ttggtagggtc	agcatgtgtg	cacatcgaca	catacaaggc	taagggtgaa	240
aaaggatctt	ctgagaggta	cgcgtcatgg	gagataacta	acagggagat	ggtgcaattg	300
cgccgaaaaat	gtgagatgtt	cacatatatg	aggatgacg	tggaaataac	atgtgtgata	360
accagctacc	aggagcagg	cacacgattg	gcccaggaca	tgccctgtact	aacacaccaa	420
atcatgtacg	tgcccccg	tgggcctgtg	ccaacaagca	cggagagcta	tgcatggcag	480
acctcaacga	accctagcgt	cttttggaact	gagggaacg	caccaccg	tatttccata	540
cccttcatca	gcataggaaa	tgcgactgc	aacttttatg	atgggtgggtc	acattttctca	600
caagatgggt	cctatggcta	cacagcgctc	aatagaatgg	ggaaaatata	tattagacat	660
gtaaataagg	agacccccac	acaggtcatt	agtaccgtga	ggatgtacat	gaaacaaaaa	720
cacatttcg	catgggtgcc	cagaccccc	cggctgtgca	aatacctaca	ctcagggaac	780

F09260 "092601"

atgaacttca acgtggagga cattacagag gagcggaacg atataaacca tgtaccacc 840
 cccagccaca gcagtagtgt gcgtgtgcgt cttggcacca ca 882

<210> 60
 <211> 867
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence; Note =
 synthetic construct

<400> 60
 ggtgatgttg aggactcagt aaacagagca gtgggttaggg tagcagacac catgccaaagt 60
 ggaccatcca attcgcaggc agtacctgcc ttgacagccg ctgagacagg tcacacgtct 120
 caagtgggtgc ctgggtgataa catccaaaca cgtcatgtgc acaactacca ctccagaact 180
 gaatccagta tcgaaaattt ctccgggcgt tccgcatgtg tagtggtcaa aacatataaa 240
 atgggtcaaa aagttgtagc tacagacaga tatgatagtt ggatgatttc cattagggac 300
 atgggtacaac taagacggaa gtgtgaaatg ttcacgtaca tgagatttga tttagagatc 360
 accttcgtgg tcacgagtta ccaacaatat agtacatcct tgacacagga catgccagt 420
 atcacgcatac agttcatgta tgtgccgcct ggggggtccg ttcctgagag tgtaaatagc 480
 tacgcttggc aaacgtcaac caatcccagt atattctgga ctgagggtaa tgccccagca 540
 aggatgtcca ttcccttcat cagtgttggg aacgcatata gctgcttcta cgatggctgg 600
 tcacacttca cacagaaggg ggtttatggt tataacactc tcaacaacat gggcaaattg 660
 tacatgcgac acgtgaacaa aaatagcccc acagagatca taagcactct tcgtgtgtat 720
 ttcaagccaa agcacgtgaa agcgtgggta cccagaccac ccaggctatg tccatacaaa 780
 tataaggcaa atgttgactt tgaagtgact ccaatcacag acaagcgaga ctccataacc 840
 agcataccag tccccaaagca cactcat 867

<210> 61
 <211> 861
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence; Note =
 synthetic construct

<400> 61
 ggggataacc aggatcggac ggtcgccaac acacagccta gcggtccgtc caactccacg 60
 gaaattccag ccttaacagc ggtggaacg gggcacacct cacaagtga tcccagtgac 120
 actatccaga ccaggcacgt ggtaaacttc cactcacgtt ctgagtcac tatagaaaat 180
 ttcatggggc gtgcagcatg tgtgttcatg gatcagtata aaatcaatgg agaagagacg 240
 tccactgata ggttcgcagt gtggaccata aacataaggg agatggccca attaagaagg 300
 aagtgtgaaa tgttcacgta catgcgtttt gatatcgaga tgacaatggc cattaccagc 360
 tgtcaagacc agggaaacgat actagatcag gacatgcctg ttttgacgca tcaaattatg 420
 tacgtcccac cagggggccc aatcccagcc aaagtagata gttacgagtg gcagacatca 480
 acaaacccca gcgtcttctg gacggaaggc aatgcaccac cgcgtatgtc tattccattc 540
 attagcgtcg gcaatgctta tagctcattt tacgatgggt ggtcacactt cacacaggac 600
 ggtacctatg ggtatacaac ccttaatgca atggggaaac tgtacattag gcatgtgaat 660
 aggagcagcc ctcacatgat aaccagcacg atcagagtat acttcaaacc caaacacatc 720
 aaggcatggg tgccccgacc accacgattg tgccccgata taaacaaaag ggacgtaaac 780

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tttgtagtca cggagataac agactcaagg acttccatca ctgatacacc acacccagaa 840
catagtgtcc tggcaacgca t 861

<210> 62
<211> 879
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence; Note =
synthetic construct

<400> 62
ggagacatcg tggaggctgt ggagggagcc atctcgcgag tggcagatac tgtagtagt 60
gggcccagta actctcaagc agtaccagcc ctcacagcag tcgaaacggg tcacacttct 120
caagtcaatc ctagtgcacac catgcagacc agacacgtga caaattacca ctcgcggtca 180
gaatccagca tagaaaattt ccttagccgc tctgcttggtg tgtatatggg cgaatacagc 240
acacaagcat cagatgagac caaaaagtac atgtcatgga ccataagccc aaggaggatg 300
gttcaaagtc gcaggaagtt tgagctcttc acttacctgc gttttgatgt ggagattact 360
tttgtaatca ccagcagaca agtcaaggta gggacacaaat taggccaaga tgcccccccg 420
ctaactcacc aagtcattga tataccccca ggaggcccag tacctgattc agttggtgat 480
tacgcatggc agacttccac taaccctagt atcttttgga ccgaaggtaa tgcacacccc 540
aggatgtcaa tacccttcat tagcataggt aacgcctata gcaactttta tgacgggtgg 600
tcgcattttc accagaatgg cgtctatgga tacaacacgc tgaaccatat ggggcaactg 660
tacgtgcggc atgttaacgg cccttcacca ttaccagtga caagcacagt cagggtctac 720
tttaaaccca aacacgtgaa ggcttgggta ccgagggcac ccaggctatg tcaatatgta 780
aatgcatcca ctgtgaactt cgagccaaca gacatcactg agtcacgcac tgacatcaac 840
catgttccag acaccgtgaa gccagatctc caaacatac 879

<210> 63
<211> 843
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence; Note =
synthetic construct

<400> 63
ggggacgtgc acgatgcggt ggttggggcc atgaccctg ttgcagacac gataagtagt 60
gggccaagca attcagaaag cgtgccagca ttgactgcag ccgagacagg acacacatca 120
caggtagtac cgagtgtatc catgcagacc agacatgtgc ggaatttcca cacaagatca 180
gagtcttcaa tagaaaattt catgagtcgc tccgcctgtg tctactatac taagtataag 240
accaaagacc cggacccaac ggagatgtac tctagttgga aggttaccac caggcaagtg 300
gcacaactca ggaggaagat ggagatgttc acttatttgc gctttgacgt agaagtgaca 360
tttgtaataa ctagctcgca agatcagtc acgagtgttg cacaggacgc acctgttctc 420
actcaccaaa tcatgtacat cccaccgga ggcccgggtc ccaaatacagg tagggattac 480
tcatggcaat cctgtactaa cccaagtgtt ttctggactg agggtaaatgc accaccacgc 540
atgtgtattc cgttcattag tattggaggg gcatatagtt cattctatga cgggtggtcc 600
cactttaacc aacaaggtcc gtacgggtat aacactctca atgacatggg tcaactgtat 660
tttaggcattg tgaacgaggg tagcccaggg gcggttaaca gctacatcag aatatacttc 720
aaacctaacc atattagagc atgggtgccc agaccaccta gattgtgtca gtatgagaaa 780

0993786 092601 2982660

840
843

```
<220>
<223> Description of Artificial Sequence; Note =
      synthetic construct
```

60
120
180
240
300
360
420
480
540
600
660
720
780
840
885

```
<220>
<223> Description of Artificial Sequence; Note =
        synthetic construct
```

60
120
180
240
300
360
420
480
540
600
660
720
780

cgagccaacg	tgaactttga	accacgaggg	gttaccgatg	ccaggtctag	tatcacggcc	840
acaaccgaca	cgatcactga	gagcacaggg	atgcaaacga	ct		882

<210> 66
 <211> 876
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence; Note =
 synthetic construct

<400> 66						
aatgatccag	caactgccat	agttagatcg	gttgagagag	tggctgatac	catagcaagt	60
ggaccacta	actcagagag	agtgccagca	ctaaccgccc	ttgaaacagg	tcacacctca	120
caggtagtcc	cgagcgacac	catgcaaact	aggcatgttg	tgaaccatca	cattagatca	180
gagtcctcta	ttgaaaactt	cctgagcagg	tccgcctgcg	tgtacatcga	catgtatggg	240
acaaaagaga	atggtgacat	caagcgcttc	accaactgga	gaataaacac	acgtcaggtc	300
gtgcagctaa	ggcgcaagct	ggaaatgttt	acatacatta	gatttgatgt	tgaaatcact	360
tttgtaatca	ctagcacaca	gggaacaccg	actcaaaaga	acaaggatac	cccagttcct	420
acacaccaa	tcatgtatgt	gccaccaggg	ggcccaatcc	ctgtatctta	tgaagattat	480
tcttggcaga	cctctacaaa	tcctagtgtt	ttctggacag	aagggaatgc	cccagcccgt	540
atgtcaattc	ccttcatgag	cgtagggaac	gcctattgta	acttttacga	cgggtgggtca	600
cacttctcac	aatcgggtgt	gtatgggttc	actacactca	ataacatggg	tcagttgtac	660
tttgcacacg	tgaacaagga	cacccttgga	ccatacaata	gcacgggttcg	ggtttacttc	720
aaacccaaac	atgtgaaggc	atgggtaccc	agaccaccgc	gcctgtgcga	ctacgtttac	780
gcacataatg	ttgacttcac	acaaaagggg	gttactgaca	gcagggacaa	gatcacccctg	840
gaccgtgatg	aacacgtgcc	gtcagtgggt	aaccac			876

<210> 67
 <211> 870
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence; Note =
 synthetic construct

<400> 67						
ggagatgatc	caccgcattc	gatctcaaac	acggttgcaa	acaccaaccc	tagtgggtcca	60
accaactcag	aaaggatccc	agcgctcaca	gcagcggaag	ctgggtcacac	ctcgcagggtg	120
gtcccagagt	ataccgtaca	aactcgttgt	gtgaaaaact	tccacactcg	atcggagtca	180
tcaattgaga	actttttgtg	cagatcagct	tgcgcacaca	tgtcatcgta	tgaggccttc	240
ccaacaacaa	cacaagacgg	tacacaaagg	ttcgccaatt	ggacgattag	tgtgaaagac	300
atggtgcagt	tgaggaggaa	atgtgagatg	ttcactgtat	taagatttga	catggagggtg	360
acttttgtga	taactagtgt	gatcgaaact	acaaaaggga	aagtaccggc	accagcagtc	420
acacaccaag	taatgtacat	tccaccaggg	ggacctattc	cagctagcgt	tgaaagttaa	480
gcctggcaaa	catccaccaa	cccaagcgtg	ttttggacag	aagggaatgc	tccccacgc	540
atgtctatac	catttatcgg	cattggtaat	gcctacagca	tgttctatga	cggatggggcc	600
agtttcagac	aatcgggtgg	atatggatac	agcaccctga	accacatggg	ccagatatcc	660
gtaagacacg	tgaatgcaac	catacacaac	ttgatcagca	cagtcaggat	atatttcaag	720
cccaagcacg	ttagggtctg	gattcctaga	cgcgccaggg	tgtgtcagta	catttacaag	780

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gcaaagttag actacgcagt gtcaaatact actgaaaagc gagatagtat aagatggaca 840
ccaacaaccg gtccgtcaat gacatcccac 870

<210> 68

<211> 855

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence; Note =
synthetic construct

<400> 68

ggtgacgacg caaggactgt tagcgacaca caaaagagcc agccatctaa ctctgagcaa 60
gtgcctgcct taacagcggg tgagactgga cacacctctc aagttgagcc cagtataaca 120
gtacagacac gacatgttgt caactcacac agtaggacag agtcgacaat tgagaatttc 180
tttgggaggg ctgctgttgt gaggggtgaga gactactcta tagggcatga tttggcagcg 240
gacgaaacat atgatatgtg ggccattaca gtgcgagaca tgggtgcagct tcgtaggaag 300
tgtgagatgt tcacatacat gaggtttgac ttggaagtga cgctagtcat caccagctat 360
caagaaccag ggacaatcac caccaggat atgcccgtcc taaccaccca gattatgtat 420
gtgccgccag gagggccggg cccagccaag gctgacagtt acgcgtggca aacgtcaaca 480
aatcccagta tattctggac cgaaggcaac gctccacctc ggatgtctat cccatacatt 540
ggcatcggca atgcatatag cagcttttat gacgggtggg cgagcttcaa caactcgggt 600
gtgtatggct acacaaccct gaataacatg ggtaaactgt acttcagaca cgtgaacaaa 660
cacagcccaa aactatttaa gagcactgtg aggatataat tcaagcccaa gcacgtccag 720
gcgtgggtcc caagaccacc gcgcttgtgc ccgtatctga ataagagggg tgtcaacttt 780
gaagtgaac ccgttacgag caagagagac agtattaact ggtgtccaca aacaaaccgc 840
caagtgtaca atcat 855

<210> 69

<211> 876

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence; Note =
synthetic construct

<400> 69

aatgaacctt gtagtgccat tgagagagca attgtgcgcg tagcagatac tatggccagt 60
gggcctgcaa actcagagca aatccctgcc ctaaccgctg ctgagactgg tcacacctcg 120
caagtgggtc ccagcgacac tatgcaaacc cgccatgtat gtaactacca caccagatct 180
gaatcatcga tcgagaactt cctatgcagg gctgcagtgt tctacatagt gagttacaaa 240
acacagggcg acgaacaaac cgacaataac gctagttggg agatcaaacac gcggcagggtg 300
gcacagttaa ggagaaaatt ggaattcttt acttacataa gatttgacat ggaggtaaca 360
tttgtgatca ctggttcaca agacaccagc acacagacta acacggatac gccagtgtta 420
acccatcaaa ttatgtatgt gcctcccggt ggtccagtac cgacatcagc cacagattac 480
agctggcaga catctacaaa tcccagtgtg ttctggacag aagggaatgc gcctccccgt 540
atgtccatac ccttcattag cataggcaat gcgtatgcta atttctatga tgggtgggtcg 600
cacttttagc agtcaggggt gtatgggttac accacactca ataatatggg taccctgtat 660
ttcaggcacg tgaacaactc gaccatcggg ccttacacca gtgcagttag gatataatttc 720
aagccaaagc acgtcaaagc gtgggtgcca cgaccgccac ggttgtgcga ttacaaacac 780

TOP SECRET 09937862 099301

aaaaagaacg tagactttac tcccacaggt gtgaccacaa ctagagacaa gataaccttg 840
gacaagggga ctcacgtgcc gagcgtatgg aacaca 876

<210> 70

<211> 876

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence; Note =
synthetic construct

<400> 70

aatgacccccg aaggtgcact taataaagca gtgggcaggg tagctgatac tatagctagt 60
gggcccgtca atacagagca aattcctgca ttgacagcag tggagacagg gcatacatct 120
caagtggtag ctagtgacac aatgcaaacc cgacacgtgg tcaacttcca tactagatca 180
gagtcacgtg tacagaactt catggggaga gcggcatgtg tatatatcgc ccactatgcc 240
acagaaaagg ctaatgatga tttggacaga tacactaact gggagatcac aactaggcag 300
gtggcacagt tgaggcgcaa gttggagatg tttacgtata tgagatttga cctcgagatt 360
acattcgtaa tcaccagctc ccagcgtact tccaacaggt atgcgtcaga ctcccccca 420
ttaacacatc aaataatgta cgtgccgccg ggggggtcca ttccaagggt ttatgaagac 480
tttgctggc agacgtccac caaccaagt gtgttttggg ccgaaggtaa cgccccctct 540
aggatgtcaa taccattcat gagcgttggc aacgcataat gtaactttta tgatggatgg 600
tcccatttca gtcagagcgg tgtgtacggg tacactacat tgaacaacat ggggcgttta 660
tatttttagac atgtaaacaa atcaacagga taccagtaa atagtgtcgc ccgcgtctat 720
ttcaagccca agcatgtgaa ggcatgggta cctcgcgcgc cacgcttatg tccatatttg 780
tatgctaaaa atgtcaactt tgatgtgcaa ggcgtgaccg agtcccgggg taagatcact 840
ctcgaccgtt cgactcacia ccccggtgta accact 876

<210> 71

<211> 876

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence; Note =
synthetic construct

<400> 71

aatgaccctg aaggtgcgct caacaaggcg gtgggcagag tggctgatac aatagccagt 60
gggcccgtca aacttgagca aattcccga ttgacagcag tggaaacagg gcacacatct 120
caagtagtac ctagtgatac aatgcaaact cgacacgtgg tcaacttcca caccagatca 180
gaatcatcgt tggagaactt catgggaaga gcagcgtgtg tgtatatcgc tcattatgct 240
acagagaagg ctaatgatga tttagacaga tacaccaact gggaggtcac aaccaggcag 300
gtagcacagt tgaggcgtaa actggagatg ttcacgtaca tgaggtttga cctcgagatc 360
acatttgtaa tcaccagctc ccagcgcact tcaaccaagt atgcgtcaga ttcccccca 420
ctaacacacc agataatgta tgtaccgccg gggggccccg tccccaagggt ttatgaagat 480
tttgctggc agacgtccac caaccaagt gtatttttgg cggaaggtaa cgccccctct 540
aggatgtcga taccattcat gagcgttggg aacgcatact gcaactttta cgacggatgg 600
tcccatttca gccagagcgg tgtgtacggg tacactacat tgaacaacat ggggcacttg 660
tatttcagac atgtaaacaa atcaactgca taccagtta acagtgttgc ccgcgtctac 720
ttcaagccca agcacgtaaa ggcttggggt cctcgcgcgc cacgcttatg tccatatttg 780

tatgcaaaaa	atgtcaattt	tgatgtacaa	ggtgtgaccg	agtctcgggg	aaaaatcact	840
cttgatcgat	cgactcacia	ccctgtgtca	accacg			876

<210> 72
 <211> 877
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence; Note =
 synthetic construct

<400> 72						
aacgaccccg	aacatgcgtt	aaacaacgcc	attggtagag	tggcagatac	gatcgccagt	60
gggccggtga	actcggaacg	catacctgca	ctaaccgcag	tggagacagg	acacacgtct	120
caagtgggtgc	caagcgacac	catgcaaaca	aggcacgtag	tcaacatgca	tacaagatcc	180
gaatccacca	tcgaaaattt	catgggaagg	gctgcttgtg	tatacattgc	gcaatacgcc	240
actgataagg	ccagtgtatga	tctggacagg	tacaccagct	gggagatcac	tacgagacag	300
gttgcgcaat	tgaggagaaa	gctggagctg	tttacataca	tgaggatatga	cttagaagtt	360
acctttgtca	ttaccagttc	ccagcgcact	tcgactacat	atgcatcaga	ctccccgcca	420
ttgacccacc	aaattatgta	tgtgcctccc	ggggggcccta	ttcccatagg	acacgaagac	480
ttcgccctggc	agacttcaac	aaaccccagt	gtcttttggga	ctgaaggaaa	tgccccacca	540
cgtatgtcca	taccattcat	gagtgtgggc	aatgcctact	gcaattttta	cgatgggtgg	600
tcacatttta	accagagtgg	ggtgtatgga	tacactacac	taaacaacat	gggtcgctta	660
tatttcaggc	atgtaaacag	atctactgcc	taccaggtta	atagtgttgc	acgtgtttac	720
tttaaaccca	aacacgtcaa	agcctgggtc	ccacgagcac	cacgattgtg	cccatacttg	780
tatgctaaga	acgtgaactt	taatgtgcaa	ggtgtgactg	actcccgaga	caagataacc	840
gtagaccgaa	ccaaccatgt	acgtatgcgc	accacag			877

<210> 73
 <211> 876
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence; Note =
 synthetic construct

<400> 73						
aacgaccccg	aacacgtggt	aaacaatgcc	gttggcagag	tggcagatac	aatcgccagc	60
gggccggtga	actcggaacg	cgtacctgca	ctaactgcag	tggagacagg	gcatacgtct	120
caagtgggtgc	caagcgatac	tatgcaaaca	agacacgtag	tcaacatgca	cacaagatct	180
gaatccacta	tcgaaaattt	catgggaagg	gctgcttgtg	tatacatcgc	acaatacgtc	240
actgacaaag	ccagtgtacga	tttggatagg	tacaccagct	gggaaatcac	cacgagacag	300
gttgcgcaat	tgaggagaaa	gttggaaatg	ttcacataca	tgaggatatga	cctggaagtc	360
acctttgtta	tcaccagttc	ccagcgcacc	tcgactacat	atgcatcaga	ttccccacca	420
ttgactcatc	agatcatgta	cgtgcctccc	ggggggcccca	ttcctatagg	atacgaggac	480
ttcgccctggc	aaacatcgac	taaccctagt	gtcttttggga	ctgaaggaaa	tgccccacca	540
cgcattgtcca	ttccatttat	gagtgtgggc	aatgcctact	gcaattttta	cgatgggtgg	600
tcacacttta	gccagagtgg	ggtgtacgga	tacactacac	taaataatat	gggtcgctctg	660
tatttcaggc	atgtaaacaa	atctactgcg	taccgggtta	atagtgttgc	acgtattttac	720
ttcaaacccta	aacatgttaa	agcctgggtc	ccgcgagcac	cacgactgtg	cccataatttg	780

T08260" 2982E661

tatgcaagga	acgtgaactt	taatgtgcaa	gggtgtgactg	actccccgaga	aaagataacc	840
atagaccgaa	ccaaccatgt	gcccatgcgt	aacaca			876

<210> 74
 <211> 876
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence; Note =
 synthetic construct

<400> 74						
ggggacacgg	aacatgcagt	tgagtcagct	atctccaggg	tagcagatac	cattagctca	60
ggtcctagta	acactgttgc	tataccagcg	ctcaccgagg	cagaaacggg	ccacacatcg	120
caagtcaccc	ccagcgacaa	tcttcagacg	cgccatgtta	agaactatca	ctcccgtctt	180
gagtcaacta	ttgaaaactt	cctgtgtaaa	tccggtgtg	tgcataattgc	gtcatacaac	240
gcatacgggtg	atgttggatc	agacagtaga	tatgatagtt	gggagatcaa	catcagggaa	300
atggtgcagt	taaggaggaa	gtgcgaaatg	ttcacctatc	tcagatttga	catggagggtg	360
acatttgtca	tactagcaa	gcaagatcaa	gggacttcgc	tatcacaaga	catgccagtg	420
ctaacacatc	agatcatgta	cgtgccgcca	ggcggatccg	tgcccactag	cgtccagagc	480
tacgcatggc	aaacatccac	caacccgagc	gtgttttgga	cagagggcaa	tgcccctgct	540
agaatgtcca	tcccattcat	tagcataggg	aatgcataca	gcagcttcta	cgacgggtgg	600
tcacatttca	cccaacaagg	tggctatggc	tataatacac	tgaacaagat	gggtaagttg	660
tttgtaaggc	atgtgaataa	agaaacacca	acccatgtga	cgagcacgat	acgtgtatat	720
tttaaaccaa	agcatgttag	agcgtgggtg	ccaaggccac	ctagattgtg	cccgtacatc	780
aataaagcgg	actgtaactt	cgctgttaca	ccactcacca	aacagcgggt	aggaatcaac	840
gatgtccgcg	ggcccagcca	cacattacat	actcat			876

<210> 75
 <211> 875
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence; Note =
 synthetic construct

<400> 75						
aacgaccccg	caaccgctat	tgaaggagca	gtccggcgag	tggcggacac	gatccagagc	60
ggaccgagca	attcggagcg	ggttccagcg	ttaacggccg	ttgagacagg	tcacacagca	120
caggttaccc	cgagtgatac	aatgcaaact	agacatgtac	acaacttcca	caccagatcg	180
gagtctagca	tcgagaactt	cctcagtaga	gcagcttgtg	tgtacatagg	gaaatatagt	240
agcaatgcaa	caacacaaga	tgaacaatac	atgtcatgga	caattaatac	cagacagatg	300
gtgcagctga	gacgcaaatt	cgaaatgttc	acctacctac	gcttcgacgt	agaagtcact	360
tttataataa	catcgcacca	agatcaaggg	acacagttca	accaggatgc	gcccgtaatg	420
tgccacccaaa	tcatgtatgt	gccacctggt	ggcccgggtg	ctaagagtgt	tgatgacttc	480
acatggcaaa	cctctactaa	ccctagtgtc	ttttggtcag	aaggcaatgc	accaccgaga	540
atgaccattc	cattcattag	tatagggaac	gcctacagca	gcttttatga	tggctgggtca	600
cacttctctc	aaaatggggg	ttacgggttt	aatgcactca	ataacatggg	taaactgtat	660
gtgagacaag	tgaacctaaa	agcccctatg	ccagtcagca	gtacagttag	gatctatttc	720
aaacccaagc	atatcaaagc	ttgggtaccc	agaccaccgc	gtctatgtaa	gtacctgaag	780

09637862 092801

tctgggagtg tcaattttga gccactgat ttgacagaaa aacggaaatc cagaaagtac 840
atccccaaaa ctttcagacc agatgtgaga accat 875

<210> 76
<211> 843
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence; Note =
synthetic construct

<400> 76
ggatgatgtgc atgatgcagt tgtgggtgcg atgtcgcgcg tcgctgatac agtagcaagt 60
ggccctgcaa actctgagag cgtgcctgct ctcactgcgg tagaaactgg acacacgtca 120
cagggtgacac caagtgatac aatgcagacc agacacgtac acaacttcca cacacgggcc 180
gaatcgtaaa tcgagaactt ctttagccgc tctgcatgtg tctattatgc aacgtacaaa 240
acaacagcca gcagaccga agaccaatc gttagggtgg ccatttcata ccgccagggtg 300
gcccactgc gcaggaaaat ggaaatgttc acctacctgc gctacgatgt ggaggctcact 360
tttgtgatta caagttctca ggacccatcg accaacgtaa gccaggatgc tctgtactc 420
acacatcagt taatgtacgt acccccggg ggtccagtgc ccaaaaattc aagagactat 480
gcatggcaaa catccacca cccgagtgtg ttctggaccg aggggaacgc accaccaagg 540
atatccatcc cctttatcag tgtgggcaac gcatacagtt gcttttatga tggatgggtcc 600
cactactcac agacgggggt gtatggttac aacaccttaa acgacatggg ccaattatct 660
gtcaggcacg tgaatgaggc aagcccgggt gcggtgtcaa gtgtagttag gatttacttc 720
aaacccaaac atgtgaaggc atgggtccc agaccaccac ggttgtgcca atatgttaac 780
gcagcaacgg tgaacttcac tctgaagggt gtcactaagg cacgtactga tctcatgaca 840
aca 843

<210> 77
<211> 915
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence; Note =
synthetic construct

<400> 77
ggaatagaag aaactattga cacagtgatc accaacgctt tacaactgtc tcagcccaaa 60
ccgcagaaac aactcactgc tcaatccacc gcctcatcca gcggagtcaa ttcacaagaa 120
gtgccagcat tgactgctgt ggagacggga gcttctggtc aagccatacc cagcgacgtg 180
attgagacca gacatgtcgt caattacaaa actagatctg aatcaaccct tgagtcattc 240
tttggttagat cagcatgcgt aaccatactg gaagtagaga acttcaatgc cactaccgaa 300
tcggacaaga aaaagcaatt caccacctgg ccaatcacat acaccaacac agtccagttg 360
cgcaggaaat tggaattctt tacatactcc agatttgatc tggaaatgac ttttgtcata 420
actgagaggt accacacaag taatacagga catgctagaa atcaagtgt ccaataatg 480
tacataccac cgggtgcgcc aaggcccaca gcacgggatg attacacctg gcaaagtcca 540
tccaatccat cagtgtttta cacatatggt agcgcgcctc ccagaatgtc tatcccatat 600
gttggcattg ccaatgcata ctacacttt tatgacgggt ttgcccagat tcccctgaaa 660
gatgatacaa ctgactccgg tgacactttt tatggattgg tcaccatcaa tgactttgga 720
acattggctg tgagggtggt gaatgagttc aaccctgcaa ggataacatc aaaggtcaga 780

09937862 092801

gtttatatga	agcccaaaca	tgtgaggtgt	tggtgtccta	ggccaccgcg	cgcagtgccc	840
tatcgtgggtg	aaggggttga	tttcaaacaa	gattcaatca	cgccaataac	agcagtcacc	900
aatattaata	ccttc					915

<210> 78
 <211> 936
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence; Note =
 synthetic construct

<400> 78						
tcaaaccact	tacatggagc	agaggcagcc	tatcaggtgg	agagtatcat	caaaacagca	60
actgatactg	tgaagagtga	gattaacgcc	gaacttgggtg	tggtccctag	tctaaatgca	120
ggtgaaactg	gtgcaacttc	caacactgaa	ccagaagaag	ccatacaaac	tcgcacagta	180
ataaatcagc	atgggtgtgc	ggagacgtta	gtggagaatt	ttcttggtag	ggcagcccta	240
gtgtcaaaga	aaagttttga	atacaagaat	catgcctcat	ccagcgcagg	gacacacaaa	300
aactttttta	aatggacaat	taatactaag	tcttttgtcc	agttaagaag	aaagctggaa	360
ttattcacat	accttaggtt	tgatgctgaa	atcaccatac	tcacaactgt	ggcagtaaat	420
ggtaataatg	acagcacata	catgggtctc	cctgacttga	cactccaagc	aatgtttgta	480
ccaactgggtg	ctcttactcc	aaaggagcag	gattcatttc	attggcaatc	aggcagtaat	540
gctagtgtgt	tctttaaaat	ttctgatccc	ccagctagaa	tgactatacc	ttttatgtgc	600
atcaactcag	catattcagt	tttttatgat	ggctttgctg	gatttgagaa	aaatgggtcta	660
tatggaataa	accagctga	cactattggc	aacttggtgtg	tcagaatagt	gaatgaacat	720
caaccagttg	gttttacagt	gaccgttagg	gtttacatga	agcctaaaca	tataaaagca	780
tgggctccac	gaccaccgcg	aaccatgcc	tacatgagca	ttgctaattgc	aaattacaaa	840
ggtagagata	cagcaccaaa	cacacttaat	gccataattg	gtaatagagc	gagtgtcaca	900
actatgcctc	acaacatagt	aaccaccggt	cgggt			936

<210> 79
 <211> 861
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence; Note =
 synthetic construct

<400> 79						
aatgaccagc	acaatggggc	gatcgttgcc	aacacaacag	ctagcggacc	ttctaattcg	60
gaaagcatatc	cggcacttac	tgcggtgtgag	actggccaca	catcgcaggt	tgtccctagc	120
gacaccatcc	agacaagaca	tgtgaaaaac	taccactcgc	gttcagagtc	caccatagag	180
aacttcctgt	gtagatctgc	ctgtgtgtac	tacaccacgt	acaacactca	gggagagcaa	240
gcacatgata	aatacgcaag	ttggccaatc	acgactagaa	aagttgcccc	actgagcagg	300
aagctggagt	tctttacctt	cctgcggttt	gatctcgaga	tcacgttcgt	gatcacgagc	360
gcccagatca	catccacgaa	ccaaaaccag	gatgccccag	tactcacaca	tcaggtgatg	420
tatgtacccc	cagggggggt	ggtaccgcgc	agtgtggatg	actatagttg	gcagacttcc	480
accaatccca	gcactctctg	gacagaagg	aacgcacctc	ctcgtatgtc	aataccattc	540
attagtgtgg	gcaacgccta	cagcagcttt	tacgacgggt	ggtcacactt	tgaacaaacc	600
ggggtatatg	gattcaatac	ccttaataat	atggggactt	tgtacgccag	gcacgttaac	660

T03250" 2984660

ggtgctagtc ccgggccagt caagagcacc attaggatat atatgaaacc taaacatgtg 720
aaagcgtgga tacctaggcc cccacgggtg tgcgactatg tgaaatctgg caacgtcaac 780
tttgaaccaa aaggagtcac cgagagcaga ccatctataa agttagaaaa gacctcaagt 840
gggcacaggc tgacaacca c 861

<210> 80

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence; Note =
synthetic construct

<400> 80

Met Tyr Val Pro Pro Gly Gly

1

5

<210> 81

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence; Note =
synthetic construct

<221> VARIANT

<222> (0)...(0)

<223> Xaa = any amino acid

<400> 81

Met Tyr Xaa Pro Xaa Gly Ala

1

5

<210> 82

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence; Note =
synthetic construct

<221> VARIANT

<222> (0)...(0)

<223> Xaa = any amino acid

<400> 82

Phe Gly Xaa Gln Ser Gly Ala

1

5

T00260" 298459

<210> 83
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence; Note =
synthetic construct

<221> VARIANT
<222> (0)...(0)
<223> Xaa = any amino acid

<400> 83
Thr Ala Xaa Glu Thr Gly His
1 5

<210> 84
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence; Note =
synthetic construct

<221> VARIANT
<222> (0)...(0)
<223> Xaa = any amino acid

<400> 84
Thr Ala Val Glu Thr Gly Xaa
1 5

<210> 85
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence; Note =
synthetic construct

<400> 85
Gln Ala Ala Glu Thr Gly Ala
1 5

<210> 86
<211> 7
<212> PRT
<213> Artificial Sequence

108260 298/E660

<220>

<223> Description of Artificial Sequence; Note =
synthetic construct

<221> VARIANT

<222> (0)...(0)

<223> Xaa = any amino acid

<400> 86

Met Xaa Xaa Pro Pro Gly Xaa

1

5

T08260" 298/2260